

PLECHAC, E.; BENCI, Z.

New type of splitting machine. p. 41

KOZARTIVI, Praha Czechoslovakia, Vol. 5, no. 2, Feb. 1959

Monthly list of East European Acquisitions (ESAI) LC, Vol. 5, No. 10
Oct. 1959
U ncl.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200019-6

Flechac, B.

General regulations for the maintenance of machinery and for labor safety in tanneries.
p. 8 (Kozarstvi, Vol. 7, no. 1 Jan 1957) Praha

SO: Monthly List of East European Accession (EEL) LC, Vol. 6 no. 7, July 1957. Incl.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200019-6

PLECER, Frantisek, MUDr., zavodni lekar Sez. Usti

Prevention and therapy of interdigital mycosis. Prakt. lek.,
Praha 35 no.15-16:377-378 20 Aug 55.

(RINGWORM

foot, interdigital, prev. & ther.)

(FOOT, diseases

ringworm, interdigital, prev. & ther.)

323 'ONT.

fluence of environmental factors upon the peptic ulcer
disease PRACOVNÍ LÉKARSTVÍ (Praha) 1956, 8/2 (123-125) Tables 4
An analysis of environmental factors in the sense of the corticovisceral theory
upon the course of ulcer disease in 37 cases among the workers in a factory
showed that factors contributing to the disease are: a too long working period,
too hard work, nervous tension and unsatisfactory diet. Maratka - Prague

EXCERPTA MEDICA Sec.6 Vol.11/1 Internal Med. Jan 57
PLECER F.

323. PLECER F. *Vliv zevního prostředí na vředovou chorobu. The in-

PLECER, Frantisek, MUDr.

Effect of external environment on peptic ulcer. Pracovni lek,
8 no.2:123-125 May 56.

1. Zavodni lekar, Sez. Usti.
(PEPTIC ULCER, physiology,
environmental factors (Cz))
(ENVIRONMENT, effects,
on peptic ulcer (Cz))

PLECER, F.

EXCERPTA MEDICA Sec.17 Vol.3/2 Public Health Feb 57

579. PLECER F. *Prevence a léčba interdigitálních plísní v závodě. The prevention and treatment of interdigital mycosis in the factory PRAKT. LÉK. 1955, 35/15-16 (377-378) Tables 1
1,114 workers have been examined. In 446 cases interdigital mycosis has been found. The campaign against the infection comprises prevention and treatment. The therapy consists in the application of Castellani's solution, visorit, 2% gentian violet, 1% brilliant green and undecylenic acid. The results from all these preparations were variable.

Pospíšil - Brno (XIII, 17)

Some quaternary analogs of...

30566
S/054/61/300/304/007/CSD
B102/B138

$\text{Cu}_9\text{Ge}_6\text{As}_3\text{Se}_{12}$. These materials might give a new combination of semiconductor parameters. There are 1 figure, 5 tables, and 10 references; 7 Soviet and 3 non-Soviet. The two references to English-language publications read as follows: C. H. L. Goodman. *Nature* 172, 828, 1957; J. Phys. and Chem. Solids, 6, 36, 1958.

47

Card 3/3

3-3m6
S/054/61/000/004/007/623
B102/B133

Some quaternary analogs of...
 $\text{Cu}_2\text{GeSe}_3 \cdot \text{CuGe}_2\text{As}_3$ to 4.0 $\text{Cu}_2\text{GeSe}_3 \cdot \text{CuGe}_2\text{As}_3$, were single-phase. The composition 1.5 $\text{Cu}_2\text{GeSe}_3 \cdot \text{CuGe}_2\text{As}_3$ contained two phases and $\text{Cu}_2\text{GeSe}_3 \cdot 0.4 \text{ CuGe}_2\text{As}_3$ three. The inhomogeneity increased with the As concentration of the composition. All alloys contained a sphalerite-type structure with lattice constant $a = 5.94 \pm 0.01$ kX. A composition $m:n = 1.6:1.0 - 4.0:1.0$ gave single-phase alloys; ($\pi = \text{Cu}_2\text{GeSe}_3$, $n = \text{CuGe}_2\text{As}_3$), $m:n = 1.0:2.0; 3.0; 4.0$ contained an additional phase with $a = 5.20 \pm 0.01$ kX; $m:n = 5.0:1.0; 4.5:1.0; 1.5:1.0; 1.2:1.0; 1.0:1.0$ contained, apart from the common one, another sphaleritic phase with $a = 4.41 \pm 0.01$ kX. The second ZnS-type phase was separated by zone melting of $\text{Cu}_2\text{GeSe}_3 \cdot \text{CuGe}_2\text{As}_3$ with an optimum rate of 0.5 - 1.5 cm/hr and 7 - 10 cycles. In the transition from the ternary Cu_2GeSe_3 to the quaternary As-containing system, from 63.3 mole% m + 16.7 mole% n in the distorted chalcopyrite lattice is rearranged into the regular ZnS lattice. Lattice parameter and microhardness are not sensitive to composition. The homogeneous region of composition ranges from $\text{Cu}_5\text{Ge}_4\text{As}_3\text{Se}_6$ to

Card 2/3

PLECHKO, R.L.

30705
3/334/6*/000/004/007/009
B102/B158

2473001153,1160,1454)
AUTHORS: Goryunova, N. A., Orlova, G. M., Danilov, A. V., Abramova,
A. V., Plochko, R. L., Kozhina, I. I.

TITLE: Some quaternary analogs of germanium

PERIODICAL: Leningrad. Universitet. Vestnik. Seriya fizika i khimiya,
no. 4, 1961, 97 - 101

TEXT: Of the possible quaternary analogs of germanium which form tetrahedral phases, only the system ZnSe-GaAs has so far been investigated. The authors chose the system Cu-Ge-Au-Se which has a tetrahedral range of variable composition in the section Cu_2GeSe_3 - $CuGe_2Au_3$. The presence of

this phase was verified and the physical and chemical properties of the phases were studied. 17 alloys from the above section were synthesized by fusion of the components in evacuated quartz ampoules at 750°C. Microstructure of the alloys was determined by means of an MM-7 (MIM-7) microscope and microhardness with an MT-3 (PMT-3) tester. Thermographic analyses were carried out with normal as well as differential recording. X-ray structural analyses showed that the alloys ranging from 2.0

Card 1/3

GORYUNOVÀ, N.A.; ORLOVA, G.M.; DANILOV, A.V.; ABRAMOVÀ, A.V.; PLECHKO, R.L.;
KOZHINA, I.I.

Some quaternary analogs of germanium. Vest LGU 16 no.22:97-101
'61. (MIRA 14:11)
(Germanium alloys) (Semiconductors)

L 16317-65

ACCESSION NR: AR5000761

moduli. It is established that the specific features of the initial raw material used for the samples come into play up to the highest investigated graphitization temperatures. The decrease in the moduli of elasticity is attributed to destruction of the "bridge" bonds between the grids of the atoms, pore formation, and defects of all kinds. The increases in these moduli at processing temperatures above 2272K is connected with the occurrence and development of the ordered structure of graphite.

SUB CODE: MT

ENCL: 00

Cord 2/2

L 16317-55 ENG(f)/EM(f)/EM(m)/EPF(c)/EPS/EMP(j)/T-2/EMP(b) PC-4/PT-4/
PS-4 MW/RM/MH

ACCESSION NR. A85000761

S/0058/84/000/009/E066/E066

SOURCE: Ref. zh. Fizika, Abs. 9E479

AUTHORS: Shulepov, S. V.; Smirnova, E. A.; Plechov, V. N.

TITLE: Effect of processing emperature on the moduli of elasticity of carbon containing materials

CITED SOURCE: Tr. Chelyab. gos. ped. in-t, v. 2, 1964, 145-152

TOPIC TAGS: carbon, coke, graphitization, modulus of elasticity

TRANSLATION: The authors investigated the Young and shear moduli of samples of tar, cracking, pyrolysis, and sulfurous oil cokes heat-treated in the temperature interval 1273--2773K. It is observed that the moduli of elasticity of all of the investigated materials decrease with processing temperature and reach a minimum at 2273K. Further graphitization of the material at higher temperatures leads to an increase in the

Card 1/2

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200019-6

SEARCHED	INDEXED	SERIALIZED	FILED
REFERENCE NO:		S/0286/65/000/005/0060/0060	
AUTHOR:	Masterson, V. N.; Pichot, H. J.; Rybnikov, L. N.; Sternov, V. A.		
TITLE:	Working liquid for vacuum pump," Class 27, No. 168840		
SOURCE:	'Byulleten' (zobretelen) i sovetskih znakov, no. 5, 1965, 60		
TOPIC CODE:	vacuum pump, coolant, hydrocarbon, cryohydrate		
ABSTRACT: This Author's Certificate presents the application of cryohydrates as working liquids for vacuum pumps (such as mechanical or steam-jet pumps) for the purpose of preventing hydrocarbonaceous clogging.			
ASSOCIATION: None			
SUBMITTED:	1-Nov-63	INCL'D:	00
NO REF SOVI:	000	OTHER:	000
GRV:	1-1		

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200019-6

Parameters of elliptical polarization in the image of a
symmetric tensor. Acta techn Cz 10 no.1:74-78 '65.

1. Czech Higher School of Technology, Prague 2, Vusehradska 49.
Submitted January 5, 1964.

PLECHATA, Rudolf, doc. inz. ar. Mgr.

Determination of physical parameters in a two-dimensional
elastically layered continuum. Acta technica CSAV, no. 1, 1964.

Czech Higher School of Technology, Prague, v.v. - Institute of
Vysokopraktika M., Subscripted on January 1, 1964.

PLECHANOW, Mikołaj

Acetylcholine reflexes and the Na⁺-glutamate law. Part I. Afferent.
dusz. 18 no.2:319-326 Warszawa 1964.

1. Z Katedry Chemii Nieorganicznej, Biochemii i Biofizyki Uniwersytetu Jagiellońskiego w Krakowie, Polska.

KELNAR, O., inz. CSc.; PLECHANOVÁ, M., inz. CSc.; KRUPKOVA, B.

Use of silicone coatings for improving the breakdown strength of surface insulators of high voltage and extra high voltage lines and switch plants in surroundings polluted with dust and chemically aggressive substances. Energetika Cz 14 no.10:483-485 O '64.

1. Laboratory of Extra High Voltage of the Institute of Power Engineering, Bechovice.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200019-6

PLECHATKA, M., Inz., 33c.

Use of water-repellent coatings in porcelain insulation of power
transformers caused by pollution. Elektr. Stroj. 1961, No. 1, p. 11.

PLECHAC, Vaclav, inz.

Regulation of lower streams of the Nitra and Zitava Rivers.
Vodni hosp 13 no.8;310-313 '63.

1. Ministerstvo zemedelstvi, lesniho a vodniho hospodarstvi.

KABELE, Jaroslav, inz.; PLECHAC, Vaclav, inz.

Economic effectiveness of stream canalization. Vodni hosp
14 no.6:233-236 '64.

1. Ministry of Agriculture, Forestry and Water Resources Management,
Prague.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200019-6

PLICHAC, V., Inc.

Development of inland navigation on the Elbe and the Vltava
Medni Hosp ID no E73-79 '62.

CHABAROV, Mark Alexejevic; PTA(NIK, Jiri; PLECHAC, Jaroslav.

Character of surface dilutions on insertion cylinders cast
in rotating molds. Slevarenstvi 11 no.6:240-243 Je '63.

1. TasIP Tashkent (for Chabarov). 2. Stredni vyrabny autodiliu
Kosmonosy (for Ptacnik and Plechac).

PLECHAC, Bohuslav

Continuous sole bend processing line. Kozaratvi 15 no.3:86-89
Mr '65.

1. Research Institute of Leather, Research on Tanning, Ctrokovice.

3

HUNGARY

ALLER, Maria, M.D., CGEPLAK, Gyorgy, M.D., KISS, Gyula, M.D., PLECH,
Agota, M.D., ROKA, Edith, M.D., and SZADVARI, Maria, M.D., of the
Complex Brigade at the Medical University (Orvostudomanyi Egyetem
Komplexbrigadja) in Pecs. (Director: BENKO, Gyorgy, M.D.,).

"Clinical Findings of the Screening Tests on the Workers in the Production Collectives in Jaras Sellye - Dermatological"

Budapest, Orvosi Hetilap, Vol 104, No 19, 12 May 1963, pp. 873-875.

Abstract: Two thousand and sixteen of a total of 3096 individuals examined showed some kind of dermatological finding, although not all of these required medical treatment. The most frequent complaints included fungal diseases, pyoderma, seborrhea, eczema, precarc. carcinoma, allergenic effects, and changes due to advanced age. The dermatological condition of the Gipsy population showed a significant improvement, attributed to the Government's program providing permanent settlement facilities for the tribe. Only five instances of scabies were encountered; there was no evidence of pediculosis. One reference to a Hungarian publication.

1/1

RUMANIA

613.2-099:576.851.2.093.387

CIUCA, M., Academician, PLECEAS, Paula, Dr, ALEXA, Eugenia, Dr, and POGORELSKAIA, Raisa, Technician. Work performed at the "Dr I. Cantacuzino" Institute (Institutul "Dr I. Cantacuzino"), Bucharest.

"The Role of Lysotyping in Determining the Enterococcal Etiology of Some Food Toxic Infections."

Bucharest, Microbiologia, Parazitologia, Epidemiologia, Vol 11, No 6, Nov-Dec 66, pp 511-514.

Abstract [Authors' English summary modified]: The authors describe the use of lysotyping with an enterococcal bacteriophage set to determine the etiology of a toxico-alimentary infection which affected 7 persons of a group of 17. The factor responsible was identified as butter; pure enterococcal cultures of *Streptococcus faecalis* were obtained from it and from the stools of the patients. The isolated strain was an enterococcus, lysotype 5/41/7.

Includes one table and 12 references, of which 5 Rumanian, one French and 6 English-language. -- Manuscript submitted 28 February 1966.

L 13062-66 EWA(j)/T/EWA(b)-2 JK

ACC NM: AP6005724

SOURCE CODE: RU/0023/65/010/001/0011/0017

AUTHOR: Beloiu, Irina--Beloyu, I. (Doctor); Pleceas, Paula--Plecheach, P. (Doctor); Zamfirescu, M.--Zamfiresku, M. (Doctor) 30

ORG: Dr. I. Cantacuzino Institute of Microbiology, Parasitology, and Epidemiology, B
Bucharest (Institutul de microbiologie, parazitologie si epidemiologie
Dr. I. Cantacuzino) 6.11.5

TITLE: Streptococcal and pneumococcal infections in monkeys

SOURCE: Microbiologia, parazitologia, epidemiologia, v. 10, no. 1, 1965, 11-17

TOPIC TAGS: experiment animal, vaccine, bacterial disease, bacteriophage,
respiratory system disease

ABSTRACT: The authors review the pertinent literature and report their own findings in a group of 44 monkeys used in polio vaccine production, of which 33 were sick and 11 normal. In the normal monkeys the authors found enterococci and streptococcus viridans as well as many enterococcal bacteriophages; in the blood of 6 of the sick monkeys they found streptococci of the A group, C group and Str. faecalis var. zymogenes, while the other sick monkeys displayed various types of pneumococcal infections from which 23 strains of pneumococci were isolated. The septicaemic type prevailed (63 percent). JPRS

SUB CODE: 06 / SUBM DATE: 21Jul64 / OTH REF: 022

Card 1/1 NP

UDC: 616-022.712.14-092.9

BELOIU, Irina; PLECEAS, Paula

Application of a new method of extraction of the group antigen from enterococci. Arch. roum. path. exp. microbiol. 23 no.3:557-562 S'63.

1. Travail de l'^e Institut "Dr. I. Cantacuzino"; Service de Cocco pathogenes, Bucarest.

BALDOVIN-AGAPI, Coralia; BALTEANU, Ecaterina; MIHALCO, Florica; BELOIU, Irina; PLECEAS, Paula

Phage-bacteria systems in streptococci of the Lancefield group D.
Arch. roum. path. exp. microbiol. 21 no.2;385-391 '62.

1. Travail de l'Institut "Dr. I. Cantacuzino" -- Centre National de Bacteriophages -- Reference et de l'Institut d'Hygiene de Fassy.
(STREPTOCOCCUS) (BACTERIOPHAGE)

BARBER, Cella; BALDOVIN-AGAPI, Coralia; BELOIU, Irina; PLECEAS, Paula

Contribution to the study of the antigenic structure of non-hemolytic streptococci. III. The antigens of the group "D" streptococci (enterococci). Arch. roum. path. exp. microbiol. 21 no.1:115-129 Mr '62.

1. Travail de l'Institut "Dr. I. Cantacuzino" — Services de Biochémie et des Cocc. pathogènes.
(STREPTOCOCCUS) (ANTIGENS)

BELOIU, Irina, dr.; PLICEAS, Paula, dr.; ZAMFIRESCU, M., dr.

Streptococcal and pneumococcal infections in monkeys. Microbiologia (Bucur) 10 no.11-17 Jan-Feb.

1. lucrare efectuata in Institutul de microbiologie parazitară si epidemiologie "Dr. I. Cantacuzino", Bucurest , Sectie "Coel patogenul" (for Beloiu, Pliceas), Sectia "Poliomielita" (for Zamfirescu).

BALDOVIN-AGAPI, Coralia; BELOIU, Irina; CAFFE, Illeana; PLECEAS, Paula

The species of non-hemolytic streptococci found in subacute endocarditis and their sensitivity to antibiotics. Arch. Roum. path. exp. microbiol. 20 no.3:479-489 S '61.

1. Travail de l'Institut "Dr. I. Cantacuzino" Service des Cocco pathogenes.
(ENDOCARDITIS, SUBACUTE BACTERIAL microbiology)
(STREPTOCOCCUS pharmacology) (ANTIBIOTICS pharmacology)

BELOIU, Irina, dr.; PLICEAS, Paulia, dr.; TEODORESCU, Gh. chimist

Contribution to the composition of the Sianetz selective medium
used for the isolation of enterococci. Microbiologia (Bucur) 9
no.6:553-556 N-D '64

1. Lucrare efectuata in Institutul de microbiologie, paraziologie si epidemiologie "Dr. I. Cantacuzino", Bucuresti.

PLECEAS, Paula, dr.; PLECEAS, M., biolog

Problems in cosmic microbiology. Microbiologia (Bucur) 9 no.5:
407-416 S-O '64

I. Lucrare efectuata in Institutul de microbiologie, paraziatologie,
epidemiologie "Dr. I. Cantacuzino", Bucuresti.

PLECEAS, Paula, dr.; PLECEAS, M., biolog

Problems in cosmic microbiology. Microbiologia (Bucur) 6 no. 3:
407-416 S-0 '64

1. Lucrare efectuata in Institutul de microbiologie, parazitologie,
epidemiologie "Dr. I. Cantacuzino", Bucuresti.

ROMANESCU, Gh.; PLECHAS, M.; IAHIM, A.

Testing the effectiveness of disinfectants for smallpox virus.
St. Petersburg, Institute of Hygiene, 16 no. 5423-037-04.

Study of the action of abietic acid on vaccinia virus. Ibid.,
230-243

TASOVAC, Borivoje, prof., dr.; SIMIC, Cedomir, prof., dr., akademik;
DUKIC, Dragisa; PLECAS, Zorica

Hypodermosa bovis -- myiasis in a child. Srpski arh. celok. lek.
89 no.1:43-50 Ja '61.

1. Pedijatrijska klinika Medicinskog fakulteta Univerziteta u Beogradu.
Upravnik: prof. dr Borivoje Tasovac. Institut za parazitologiju
Veterinarskog fakulteta Univerziteta u Beogradu. Upravnik: akademik,
prof. dr. Cedomir Simic.

(MYIASIS in inf & child)

YUGOSLAVIA

PLMCAS, dr Vojislav [Affiliation not given], Belgrade.

"Certain Public Health Problems in the Treatment of Patients Injured by Ionizing Radiation."

Belgrade, Narodno Zdravlje, Vol 19, No 6, 1963, pp 196-201.

Abstract: The author discusses the etiopathogenesis of damage to the organism from ionizing radiation, pathogenetic classification of such diseases (hematopoietic, gastrointestinal, and cerebral forms), pathological and anatomical changes taking place, clinical phases, the bases of diagnosis, possibilities of treatment, and the task of the physician in an emergency situation.

Eleven references, six Western, four Yugoslav, one Soviet.

RADOJICIC, B., sanitetski pukovnik prof. dr.; KLEAS, V., sanitetski potpukovnik dr.

Contribution to the diagnosis of acquired toxoplasmosis in adults. Vojnosanit Pregl. 20 no.10:659-661 O '63.

1. Vojnomedicinska akademija u Beogradu, klinika za unutrasnje bolesti.

PART II

La Drina MINGUO y el Dr. Paula RIVAS, jefes de la delegación chilena,
intitular (cuerpo diplomático, Instituto) "Dr. F. Gutiérrez", charlaron
"Nature of the Speech given in Unesco World Congress".

"Incluso se discutieron, fijando la fecha del Congreso, telégramas, etc., etc.",
informó (1967) (p. 177-178).

Meeting: Description of action to determine if photographs from which
transcripts were made by verifying the original sensitivity, etc., and then
to the quality of the original photographs. Transcripts of the same
photographs produced by the original and the original photographs. This is
done according to position and pressure (for "normal") and also were
obtained results (as were the results with 166 visual stars) to
differentiate. Table, photograph of the evidence 3 sections and
Relevant relevance.

BALDOVIN-AGAPI, Coralia, dr.; IENISTA,C.dr.; HELOIU,Irina,dr.; PLECEAS,
Paula.

Considerations on the presence of streptococci in food products of animal origin. Microbiologia (Bucur) 8 no.5:437-
444 S-0'63

1. Lucrare efectuata in Institutul "Dr.I.Cantacuzino" si Institutul de Igiena R.P.R.

*

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200019-6

PLECAS, Bogdan; KORAC, Milovan; PLECAS-DRLJACA, Tatjana; JANEZIC-JELACIC, Olga.

Comparative evaluation of diagnostic tests verified by biopsy in 140 patients with liver disease. Srpski arh. celok. lek. 93 no.2:163-166 F '65.

1. Interno odjeljenje bolnice "Dr. Dragisa Misovic" u Beogradu (Nacelnik: prof. dr. Frane Bulic).

KORAC, Milovan; PLEGAS, Bogdan

Our first experiences with antrenyl. Srpski arh. celok. lek. 83
no.12:1466-1469 Dec 55.

1. Interno odelenje bolnice "dr. Dragiva Misovic" u Beogradu.

Sef: dr. Frano Bulic.

(PARASYMPATHOLYTICS, ther. use,
oxyphenonium in peptic ulcer. (Ser))

(PEPTIC ULCER, ther.
oxyphenonium. (Ser))

PLECAS, Bogdan; KRPO, Andjelija; JANEZIC, Olga

Lupus erythematosus visceralis sine lupo. Srpski arh. celok.
lek. 84 no.4:522-526 Apr 56.

1. Interno odelenje bolnice Dr. Dragise Misovica u Beogradu.
Upravnik: Frano Bulic.

(LUPUS ERYTHEMATOSUS

disseminated, without skin manifest., histopathol. (Ser))
(SKIN, in various dis.

disseminated lupus erythematosus, absence of skin
manifest., histopathol. (Ser))

PLECAS, Bogdan; KORAC, Milovan; PLECAS-DRLJACA, Tatjana; JANEZIC-JELASIC,
Olga.

Comparative evaluation of diagnostic tests verified by biopsy
in 140 patients with liver disease. Srpski arh. celok. lek. 93
no.2:163-166 F '65.

1. Interno odeljenje bolnice "Dr. Dragisa Misovic" u Beogradu
(Nacelnik: prof. dr. Frane Bulic).

KORAC, Milovan; PLEGAS, Bogdan

Our first experiences with antrenyl. Srpski arh. celok. lek. 83
no.12:1466-1469 Dec 55.

1. Interno odelenje bolnice "dr. Dragiva Misovic" u Beogradu.
Sef: dr. Frano Bulic.

(PARASYMPATHOLYTICS, ther. use,
oxyphenonium in peptic ulcer. (Ser))

(PEPTIC ULCER, ther.
oxyphenonium. (Ser))

PLECAS, B.; RANKOVIC, I.

A severe case of hornet bite. Med.glaen. 9 no.5:165-166 May '55.

1. Interno odeljje bolnice "dr Dragisa Misovic" u Beogradu,
Upravnik: prof. dr F. Gulic; i Hirurško odelenje Upravnik: prof.
dr. Ivo-Djani Popovic.

(INSECTS,

hornet bite, diag. of an extremely severe case (Ser))
(BITES,

hornet bite, diag. of an extremely severe case (Ser))

PLECAS B.

NAJDANOVIC, Borislav, dr.; PLECAS, Bogdan, dr.; POPOVIC, Ivo, asist. dr.;
KRPO, Alija, dr.

Hypersplenism; reports on splenectomized patients. Srpski arh.
celok. lek. 82 no.7-8:905-919 July-Aug 54.

1. Interno odeljenje Bolnice "dr. Dragisa Misovic" u Beogradu, sef
prof. dr. Frano Bulic; Hirursko odeljenje Bolnice "dr. Dragisa
Misovic," sef asist. dr. Ivo Popovic.

(SPLEEN, surg.

excis. in hypersplenism, results)

(HYPERSPLENISM, surg.

splenectomy, indic. & results)

PLECAS, Bogdan; KORAC, Milovan

Transcutaneous renal biopsy as an auxiliary method for the study on
the etiopathogenesis of nephritis in patients of the village Donji
Dobric. Srpski arh. celok. lek. 88 no.11:1127-1132 N '60.

1. Interno odeljenje Bolnice "Dr Dragica Misovic", Sef: prof. dr
Frane Bulic

(NEPHRITIS pathol) (BIOPSY)

PLECAS, Bogdan; KORAC, Milovan; MAGARASEVIC, Mileta, dr.

Contribution to the study of the clinical significance of prolapse
of the gastric mucosa (prolapsus mucosae antri). Srpski arh. celok.
lek. 88 no.9:877-880 S '60.

1. Interno delenje Bolnice "Dr Dragisa Misovic" u Beogradu. Sef:
prof. dr Frane Bulic. Rendgensko odeljenje Bolnice "Dr Dragisa
Misovic" u Beogradu. Sef: prof. dr Mileta Magarasevic.

(STOMACH dis)

MAGARASEVIC, Miletta, prof. dr.; PLECAS, Bogdan, dr.; KORAC, Milovan, dr.

Diverticulosis of the digestive organ. Med. glasn. 14 no. 10:477-479
0 '60.

1. Radiosko odeljenje bolnice "Dr. Dragisa Misovic" (Upravnik:
prof. dr M. Magaresevic). Interno odeljenje bolnice "Dr. Dragisa
Misovic" (Upravnik: prof. dr F. Bulic).

(DIVERTICULOSIS)

PLC, V. N.

"Quelques observations aux degrés du membre de H. N. Nekrakov, A. E. Krivov et B. I. Molcov: Sur certains chlorures du tetraarylphosphonium." PLC, V. N. (p. 1302)

SO: Journal of General Chemistry (Zhurnal Obshchey Khimii) 1938, v. 8, n. 12, p. 1302.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200019-6

PLSC, V. I.

"Sur la question des composés oxytitaniques." Plsc, V. I. (p. 1301)

SO: Journal of General Chemistry (Zhurnal Obshchei Khimii), 1936, Vol. 6, No. 1 - 25

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200019-6

PLEC, V. M.

"Sur le chlorure de l'acide allylthiophosphorique." Plec, V. M. (J. 197)

SD: Journal of General Chemistry (Zurnal Obshchey Khimii) 1973, vol. 47, no. 12,

PLEBANSKIY, YA.

Theoretical Physics, Quantum Electrodynamics (5692)
Byull. Pol'skoy Akad. Nauk, Ser. III, (Vol) 1, No 1-2, 1953, pp 33-36
Plebanskiy, Ya.

Nonlinear Electrodynamics and Elementary Laws

Discusses the choice of a Lagrange function in nonlinear electrodynamics
of Born-Infeld. Author establishes on basis of variational principle a
single-valued relation of the Lagrangian with the function $p(r) = \varphi'(r)$.

So: Moscow, Referativnyy, Zhurnal -- Fizika, No 6, 1954 W-31059

PLEBANSKI J.

POLAND/Radiophysics - Distribution of Radio Waves

I-5

Abs Jour : Ref Zhur - Fizika, No 2, 1958, No 4154

Author : Bochenek K, Plebanski J.

Inst : Institute of Fundamental Problems of Technology, Polish
Academy of Sciences, Institute of Physics

Title : Methods of Microwave Optics.

Orig Pub : Arch. elektrotechniki, 1956, 5, No 2, 293-323

Abstract : Examination of two approximate methods of the solution of the wave equation, yielding refinements compared with the solutions of geometric optics. The first method is built up on analogy with the Bohm method which is used in quantum mechanics (Bohm, D, Physical Review, 1952, 166 -- 80). The solution of the equation $(\Delta + k^2) u = 0$ in the form $u = A \exp ik_0 L$ is sought. The effective index of refraction depends both on the medium as well as on the amplitude $n = n_0 \sqrt{1 - A/k_0^2 A^{1/2}}$ where n is the ordinary index of refraction, k_0 the wave number in vacuum. In the second method the solution is sought in the form $u = \exp ik_0 A$ where A is a complex function, represented in the form $\sum (ik_0)^n / n!$ and is a variant of the known WKB method. A

Card : 1/2

PLEBANSKIY, G.I.

On the spin of the \bar{f} -meson. Dokl. AN SSSR 118 no.1:65-68 Ja-F '58.
(MIRA 11:3)

1. Fizicheskiy institut Pol'skoy Akademii nauk i Fizicheskiy institut
im. P.N. Lebedeva Akademii nauk SSSR. Predstavлено akademikom I.Ye.
Tommom.

(Mesons)

On the Spin of the Electron

26-1-107/10

authors. There are 3 figures and 5 references, 1 of which
is Slavic.

ASSOCIATION: Physical Institute of the Polish Academy of Science
(Fizicheskiy institut Pol'skoy Akademii nauk) Physical
Institute imeni P. N. Lebedev AN USSR (Fizicheskiy institut
imeni P. N. Lebedeva Akademii nauk SSSR)

PRESENTED: April 26, 1957, by I. Ye. Tamm, Academician.

SUBMITTED: April 24, 1957

AVAILABLE: Library of Congress

Card 3/3

On the Spin of the π -Meson

20-1-18/58

calculation is made according to the disturbance theory doubtlessly applicable with weak interactions. Analogous calculations can also easily be made for the spins 2^- and 0^+ . But in these cases different Lagrangians can be formed which do not contain second deductions. Therefore the author restricts to the investigation of the "most simple" Lagrangian function with every spin. In the case of the 0^+ spin the results of the calculations of the author differ only little from the results of Dalitz. But with the 2^- spin a free parameter contained in the "most simple" Lagrangian influences essentially the result of the calculations. These loaded particles with spin 2 are quanti of the complex tensor field: $\hat{\phi}_{\alpha\beta}(x) = \phi_{\beta\alpha}(x)$. Then the wave equations and the Lagrangian of this particle are given. The wave field is quantized the usual way. By means of the calculation of the probability of the decay $\gamma \rightarrow \pi^+ + \pi^+ + \pi^-$ according to the perturbation method the author obtains the expressions for the relative probability of the different configurations of the "decay star" corresponding to the 0^+ , 2^+ , 2^- spin. In the end the determined distributions are compared with the experimental data as well as with the results of other

Card 2/3

AUTHOR: Plebanskiy, G. I.

TITLE: On the Spin of the π -Meson (0 spin: π^0 , π^+)

PERIODICAL: Doklady AN SSSR, 1958, Vol. 118, Nr 1, pp. 65-68 (USSR)

ABSTRACT: The author investigates the decay of the π -meson under those conditions which, according to his opinion, must be taken as basis for the method of Dalitz (reference 1) and for its modifications (references 2, 3). With given spin S and pre-given parity P of the π -meson the state of the system of the 3 pions can be characterized by two vectors \vec{l}_1 and \vec{l}_2 of the moment of momentum $\vec{l}_1 + \vec{l}_2 = \vec{S}$, $(-1)^{\vec{l}_1 + \vec{l}_2} = -P$ in this case. In general a random superposition of conditions which satisfy the just mentioned conclusions can appear with the decay. For the purpose of the removal of a here pointed out discretion the author thinks it more useful to investigate the decay of the π -meson by starting from a reasonably formulated Lagrangian of the decay interaction. In the case of the spin 2⁺ the form of this Lagrangian is clearly determined if it is relativistically invariant and calibration invariable, and if it contains no second or higher deductions of the wave functions of the π -mesons and pions. The

PLEBANSKIY, G.

"Classical Properties of Wave Packets of an Oscillator"
Byull. Polsk. Akad. Nauk. Ser. A, No 5, 1954, 211-215

Wave packets of this type appear to be arbitrary wave functions of a harmonic oscillator depending only on time. The motion of the packet centers obeys classical mechanics. Square errors of coordinates (width of the packet) and oscillating pulses are functions of time. In a particular case the wave packet coincides with that of A.H. Kennard (Z. Phys., 44, 326). (RZhFiz, No 9, 1955)

SO: Sum-No 737, 12 Jan 56

KUBAŃSKI, Tomasz, dr.

Department of Physico-Chemical Metrology, National
Bureau of Measures, (Zaklad Metrologiczny Fizyko-
-Chemii Głównego Urzędu Miar), Warsaw.

Warsaw, Chemia analityczna, No 5, September-October
1965, pp 903-910.

"Standardization grounded on unified system of
physico-chemical measurement."

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200019-6

PLEBANSKI, Tadeusz

Profitableness of potato storage. Postepy nauk roln [1 no. 3;
79-93 My-Je '64.

1. Institute of Cultivation, Fertilization and Soil Science,
Pulawy.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200019-6

PLEBANSKI, Tadeusz

Influence of complex cultivation measures on the yield of
alfalfa seed. Rocznauł roln rosl 87 no. 4: 647-667 '63.

PLEBANSKI, T.

Application of the differential cryometer in thermometry. Bul chim
PAN 8 no.4:181-184 '60.
(EEAI 10:9/10)

1. Institute of Physical Chemistry, Polish Academy of Sciences.
Presented by W. Swietoslawski.

(Cryometer) (Thermometers and thermometry)

PLEBANSKI, T.

Application of comparative measurements to the static cryometric
purity test. I. and II. Bul chim PAN 8 no.3:117-129 '60.
(EEAI 10:9/10)

1. Institute of Physical Chemistry, Polish Academy of Sciences.
Presented by W. Swietoslawski.

(Cryometer)

PLEBANSKI, T.

Dilatometric cryometer provided with a stirrer. Bul chim PAN 8
no.1:23-26 '60. (EEAI 10:9/10)

1. Institute of Physical Chemistry, Polish Academy of Sciences.
Presented by W. Swietoslawski.

(Dilatometer) (Cryometers)

PLEBANSKI, T.

Cryometric investigation of diphenylether. Bul chim PAN 8 no.5:239-242
'60.

1. Institute of Physical Chemistry, Polish Academy of Sciences. Pre-
sented by W. Swietoslawski.

PLEBANSKI, T.

Cryometric investigation of diphenylether. Bul chim PAN 8 no.5:
239-242 '60. (EEAI 10:9/10)

1. Institute of Physical Chemistry, Polish Academy of Sciences.
Presented by W. Swietoslawski.

(Cryometer) (Phenyl ether)

~~Excluded from automatic
downgrading and
declassification~~

G.L.

615 779 033

1317
Synowicki A., Cisner J., Lachek C., Pietrasik T., Kotuli Z., Cywala
Wojciech J. Crystalline Procaine Penicillin for Intramuscular Injection
in Water Suspension

"Kryształkowy penicylin prochowy do zastawek domiesnio-
wych w zawiesinie wodnej" Przegl. Chemiczny, No. 5, 1964, pp.
40-43, 7 figs, 1 tab.

The aim of the experiments here described was to work out an eco-
nomical method of obtaining procaine penicillin from N-ethylpiperidine
penicillins from potassium salt of penicillin. The course of the process is
given together with the influence of different parameters on the yield.
The influence of the parameters in actual obtained were investigated.
The efficacy of the product was established in a number of clinical
trials. This method of manufacture was realized in industry in the
year 1964.

MIELNIK, Bogdan; PLEBANSKI, Jerzy

A study on geodesic motion in the field of Schwarzschild's solution. Acta Physica Pol 21 no.3:239-268 Mr '62.

1. Institute of Physics, Polish Academy of Sciences, Warsaw,
and University, Warsaw.

PLEBANSKI, J.

Spherically symmetric worlds as embedded in a flat space.
Bul Ac Pol mat 10 no.7:373-380 '62.

1. Institute of Physics, Polish Academy of Sciences, and
Institute of Theoretical Physics, University, Warsaw.
Presented by L.Infeld.

MIELNIK, Bogdan, mgr; PLEBANSKI, Jerzy, doc. dr

Geometry and gravitation; theory and experiment.
Problemy 18 no:10:674-679 '62.

PIEBANSKI, Jerzy

The algebraic structure of the tensor of matter. Acta physica
Pol 26 no.5;963-1020 N '64.

1. Research and Advanced Studies Center of the National Polytechnic
Institute, Mexico, and Warsaw University (on leave of absence).
Submitted May 2, 1964.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200019-6

Task Force and Directive 11

Task Force and Directive 11
The Task Force and Directive 11 were established in 1960 to coordinate the implementation of the recommendations of the Commission on Central Intelligence. The Task Force was composed of members from various government agencies, including the CIA, State Department, Defense Department, and other intelligence agencies. The Task Force was responsible for developing and implementing recommendations to improve the CIA's operations and management. The Task Force and Directive 11 were disbanded in 1964.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200019-6

of the particles to any order of approximation. In the lowest order, they assert, the motion is Newtonian. It is this last point as to whether or in what sense Einstein's field equations force Newtonian motion on the singularities in first approximation, that there has been much debate since the original paper of Einstein and Infeld.

(Reviewer's comment) The paper is elegant and interesting but fails to come to grips with the problem of coordinate conditions which has been much discussed in recent years. This is avoided by the facile assumption in the paragraph headed "Third" in section 2, that the geodesic equations imply $D^{\mu} = 0$. In fact their equation 3.7 follows from 3.6 only by implicit assumptions as to the behaviour of D^{μ} at infinity. But where is infinity in the space of general relativity? The paper does seem to prove that Newtonian motion of the singularities in first approximation in the small is consistent with the field equations. The fundamental question would be answered if it were known that the solution is unique. This might follow from showing that the vanishing of (the sum of the extra terms in 2.) implied the vanishing of the left side of equation 2.2 of the paper.

J. J. Coleman.

3

42

RELEASER'S NAME: [redacted]

Infield, L., and Penrose, R. On the "dipole procedure" in
general relativity theory. *Bull. Acad. Polon. Sci. Cl.*
Math. Astron. Phys. 16, no. 67.

The methods of the two papers reviewed above are used to improve the famous paper of Einstein and Infeld (Canad. J. Math. 1 (1949), 239-241, MR 11, 57) in which the idea first occurred of obtaining the equations of motion of point particles as constraints imposed by the field equations on the singularities of the field. The present paper attempts to overcome two alleged defects of this earlier work. (1) The procedure for obtaining the actual motion of the particles was not covariant. (2) There was some doubt about the validity of the approximation procedure used.

A tensor D^{μ} is introduced covariantly into the equations in such a way as to leave the singularities free to have any motion. The resulting equations are solved by an approximation procedure in terms of increasing powers of ϵ . The authors then argue that the assumption of geometric motion of the singularities (required by the previous paper) forces D^{μ} to vanish and reduces the field equations to Einstein's so that they attain the field and the motion

1-FW
3

1/2

Poland/Theoretical Physics - Quantum Electrodynamics

B-5

Abst Journal : Referat Zhur - Fizika, No 12, 1956, 33764

where $f_{\alpha\beta} = -2 \partial H / \partial p^{\alpha\beta}$ is interpreted as the vectors \mathbf{E} and \mathbf{B} , while $A_\alpha = (c/4\pi) \partial H / \partial j^\alpha$ is considered to be the potential resulting from the theory. The energy-momentum tensor has the form

$$T_{\beta}^{\alpha} = 1/4 [(H + 1/2 p^{\nu\mu} f_{\nu\mu}) \delta_{\beta}^{\alpha} - p^{\alpha\nu} f_{\beta\nu}] + (1/c) [A_{\beta} j^{\alpha} - A_{\nu} j^{\nu} \delta_{\beta}^{\alpha}],$$

which satisfies the equation $T_{\alpha\beta}^{\alpha} = 0$; all these quantities should be expressed in terms of $p_{\alpha\beta}$ and their derivatives. It is shown that the proposed "Electrodynamics Without Potentials" is equivalent to the electrodynamics by Mie (Mie, G., Ann. Phys., 1912, 37, 511) in which the potentials are principal quantities. However, though the new Dirac electrodynamics can be formulated "without potentials" (Lagrangian $P + \rho/c$), it is outside the scope of the Mie electrodynamics.

Card 2/2

Plebanski J

Poland/Theoretical Physics - Quantum Electrodynamics

B-5

Abst Journal : Referat Zhur - Fizika, No 12, 1956, 33764

Author : Infeld, L., Plebanski, J.

Institution : University of Warsaw

Title : Electrodynamics Without Potentials

Original

Periodical : Acta Phys. Polon., 1953, 12, No 2, 123-134, English

Abstract : A general scheme was obtained for formulating a single theory of the electromagnetic field, characterized by an antisymmetric tensor $p_{\alpha\beta}$ (interpreted as D and H). The simplest vector in this case will be $p^{\alpha\beta} = (4\pi/c)j^\alpha$. This equation is considered as a definition for the current. The Lagrangian function H is considered in general as being dependent on the invariant $P = -1/4 p_{\alpha\beta} p^{\alpha\beta}$ and on the quantity $\rho = k(g_{\alpha\beta} p^{\alpha\gamma} p^{\beta\mu})^{1/2}$, where k is some constant. The variational principle leads to a field equation

$$f_{\alpha\beta} = A_{\beta,\alpha} - A_{\alpha,\beta},$$

Card 1/2

PŁEBAŃSKI, J.

621.372.5

✓ 4293. Optimum characteristics of linear pulse
systems. R. KULIKOWSKI AND J. PŁEBAŃSKI. *Bull.*
Acad. Polon. Sci. Cl. 4, 3, No. 1.

The determination of the response function (and
hence the frequency characteristic) of a linear network
corresponding to pulse excitation with minimum
distortion, leads to a variational problem of the
isoperimetric type. Uniqueness of solution is con-
sidered and the results are applied to various types of
linear filter.

G. D. SIMS

OK

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200019-6

DATA SHEET

DATA SHEET
PROCHART SIGNAL DISSOCIATION
CIRCUIT
DISCUSSION

The circuit shown in Figure 1 is a Wien bridge oscillator. The output voltage, V_{out} , is given by $V_{out} = V_{in} \cdot A \cdot \sin(\omega t)$. The circuit consists of two Wien bridge oscillators. The minimum frequency condition of the circuit, found by Wien's method of analysis, is given by $\omega = \frac{1}{RC}$. The maximum condition of constant energy of the bridge requires $\omega_0 = \sqrt{\frac{1}{LC}}$. The vertical position of the bridge is determined by the value of the constant voltage source V_{ref} .

Assuming the Wien-Ross integral condition of the circuit, the output voltage is given by $V_{out} = V_{in} \cdot A \cdot \sin(\omega t + \pi/2)$. The circuit has two Wien bridge oscillators. The first Wien bridge oscillator has a constant gain of $A = 10^4$. The second Wien bridge oscillator has a constant gain of $A = 10^3$. The output voltage of the second Wien bridge oscillator is given by $V_{out} = V_{in} \cdot A \cdot \sin(\omega t + \pi/2)$.

Q

Ojaborski, J.

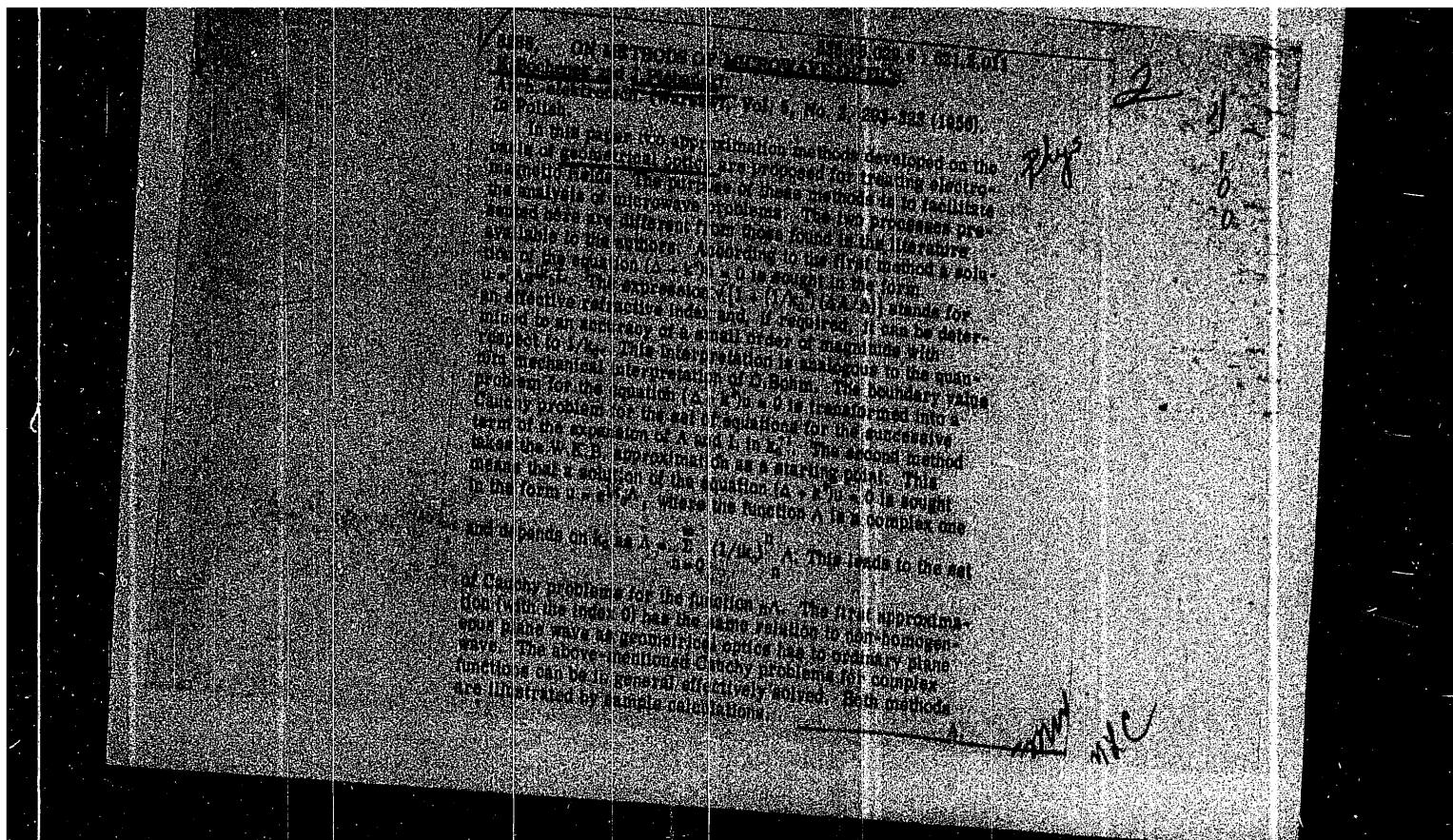
ICM 1970, pp. 11-12
Solving the problem
S. G. Krein, 1967

The advanced and
retarded Green functions for the
heat equation in two dimensions
are obtained by the method of
operator theory. The
method of operator theory is
also used for obtaining the
fundamental solution of the
heat equation in two dimensions.
The
method of operator theory is
also used for obtaining the
fundamental solution of the
heat equation in two dimensions.

In an operational method of
solving the problem
S. G. Krein, 1967

The advanced and
retarded Green functions for the
heat equation in two dimensions
are obtained by the method of
operator theory. The
method of operator theory is
also used for obtaining the
fundamental solution of the
heat equation in two dimensions.
The
method of operator theory is
also used for obtaining the
fundamental solution of the
heat equation in two dimensions.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200019-6



APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200019-6

SECRETARIO DE TURPES DEL GOBIERNO (TURPES) - TURPES
Tab., Vol. 2, fol. 5, 1954, Veracruz, Mexico, (clase)

(4) Monthly list of Fast Dispenser movements ("al"), fol. 2, fol. 2,
March 1954, incl.

PLEBANSKI, J.

3703

621.317.727.004 : 621 3.4.26

AN

Plebanski J. Potentiometric Frequency Changers (Rotopot).¹

"Potencjometryczne przetwornice częstotliwości („rotopoty”). Przegląd Elektrotechniczny, No. 7, 1954, pp. 280—288, 25 figs., 1 tab.

Description of a special type of frequency changer ("rotary potentiometer") designed by the author and likely to find extensive use in electric power engineering. Theory and constructional features. Prospects of achieving extremely high efficiency (95 per cent and more). Methods of increasing and reducing frequency. Potentiometric cascade converters designed to control the speed of asynchronous motors (power amplifiers up to $\sim 10^6$), and opportunities for employing retroaction — both negative and positive. Importance of negative retroaction for stabilising speed. Prospects of satisfactory solution of problems which have hitherto been solved by means of the Leonard control system.

MK

PLEBANSKI, J.

3

Infeld, L., and Plebanski, J. Electrodynamics without potentials. Acta Phys. Polonica 12, 123-134 (1953). (Russian summary)

Electrodynamics is developed from a variation principle in which the Lagrangian is an arbitrary function of two invariants formed from the field strengths and their first derivatives. The theory is, in general, non-linear. Potentials do not play an essential role and neither, therefore, does gauge invariance. The first form of Dirac's new electrodynamics, the Proca and Maxwell fields are obtained as particular cases.

A. J. Coleman (Toronto).

Mathematical Reviews
May 1954
Mathematical Physics

PLATONOV

Platonov, V.: Nonlinear electrodynamics and elementary
forces. *Zh. teor. i mat. fiz.* 1, 14-18 (1963).
Zeszyty Nauk. Polon. Sci. Cz. III, 1, 14-18 (1963).
It is assumed that the field equations of electrodynamics
are of the second order in the potentials, gauge invariant,
and derivable from a Lagrangian function. The Lagrangian
depends on two invariants, $F = 1/(B^2 - E^2)$, and
 $G = (B \cdot E)^2 / L = L/(e^2 C^2)$. It is shown that if the "elementary
law" of force between two static charges is assumed to be
known, then the function $L(F, G)$ can be determined. Some
features of this force are discussed. — N. Rostov (Haifa).

2

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200019-6

2
F. Nonlinear Maxwell's equations and elementary form
(Bell, T.: "NON-LINEAR EQUATIONS OF MOTION IN ELECTRODYNAMICS"
in their found, and from this the Bell Equations are derived.
J. R. 40477

PLEBANSKI, J.

"A Proof Concerning one Meaning of Each hyperbolic Differential Equation in
Theoretical Physics." p. 230 (Acta Microbiologica Polonica. Vol. .1, no. 3/4, 1953
Warszawa.)

Vol. 3, no. 6

SO: Monthly List of East European Accessions, /Library of Congress, June 1954, Uncl.

Inaki, S. and Okamura, I.: Expansion of singular function associated with the Klein-Gordon equation. *ZAMP*, Vol. 15 (1964), 207-216. (Russian summary)

Inaki, S. and Okamura, I.: On the Klein-Gordon equation with singular initial conditions. In: *Equations of Mathematical Physics*. In this case, it proves necessary to make a different assumption concerning the power in ϵ of the initial value. It is crucial to make this term noncommutable with the time-derivative one in the c^1 treatment (which formally resembles a static Yukawa problem) and commutable with the space derivatives in the c^2 treatment (which corresponds analogously to the harmonic oscillator problem). Various expansions for several of the singular functions are obtained. — S. Dose.

Pan. N. 11, d.

Infeld, L. Unit of transferred publications and documents, Vol. 1, no. 1, 1950.
WILGOTY, Warsaw, Vol. 3, no. 1, 1950.

30: Monthly List of Most Worthy Acquisitions, (cont'd), no. 1, Vol. 1, no. 1, 1950, 1951,
incl.

PLEBANSKI, J.

Polish Technical Abst.
No. 4, 1953
Mechanics, Electrotechnics,
Power

2420

Plebanski J. Direction Finding based by
Means of a Single Transmitter.

Metoda pentometrujaca przy uzytku jednego
stacji nadawczej. Przepis Techniczny
No. 12, 1953, pp. 387-391, 2 figu.

This article deals with a method of determining,
by means of a rotary field and an appropriate
system of aerials, the distance at which the
transmitter should operate and the direction
of rotation. It also contains a description
of a system of direction finding, on the
reception side, by means of a transmitter
radiating the rotary field on one wave-
length, and the non ... field on the other.

Guidance & Control

3
Additional work (April 1974) on further modifications
of differential functions, SUD 74-10, "Soviet Sci. Cl."
[REDACTED] (Russian community)
An extension of an earlier paper [REDACTED] above
treating only continuous functions which in the limit
reduce to the three-dimensional Dirac delta function
A. A. Krasovskii (Moscow, USSR)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200019-6

functions which are continuous at the origin. The present paper is concerned with the properties of the functions $\phi_{\alpha, \beta}$ defined by the formulae (1) and (2). It is shown that the functions $\phi_{\alpha, \beta}$ have the same properties as the functions ϕ_{α} and ϕ_{β} . These properties will be important in applications. They complete the alternative Fourier and analytic methods of defining the Dirac function. The latter involves a limit of functions of bounded variation which are continuous at the origin. The properties of the functions $\phi_{\alpha, \beta}$ are obtained by applying the Fourier and analytic methods to the functions ϕ_{α} and ϕ_{β} . The functions $\phi_{\alpha, \beta}$ define a continuous function δ , where the usual interpretation $\delta(x) = \lim_{y \rightarrow 0} \delta(y/x)$ is valid. The function δ is continuous at the origin in addition to the particular function $\delta_0(x)$, where x is an integer $0 < x < 1$.

$$\lim_{x \rightarrow 0} \delta(x) = 0$$

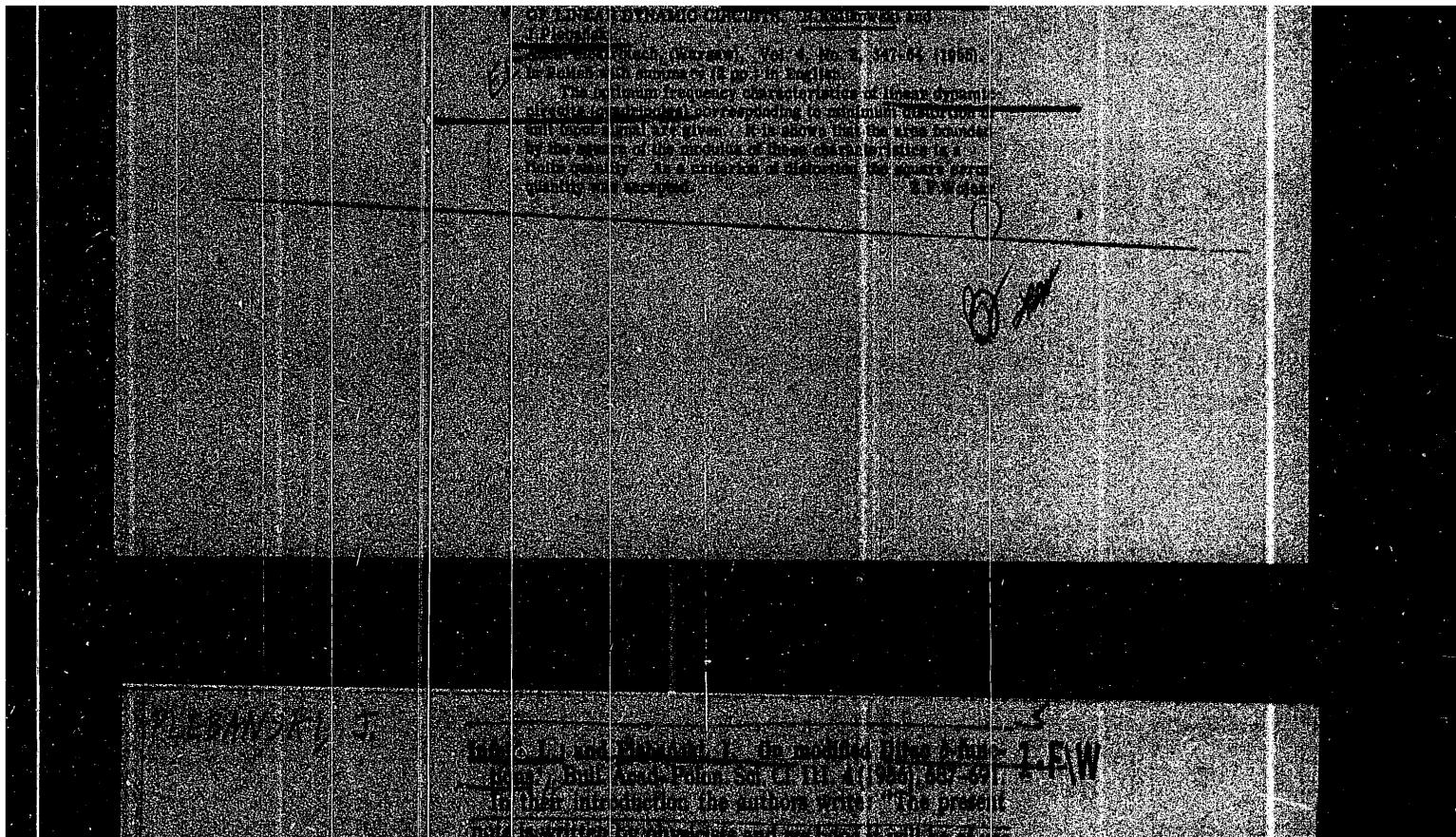
The definition of $\delta(x)$ is realized by the limiting of a set of functions $\phi_{\alpha, \beta}$ such that $\phi_{\alpha, \beta}$ defined by

$$\lim_{x \rightarrow 0} \int_{-\infty}^{\infty} \phi_{\alpha, \beta}(x, t) dt = 1$$

has the following properties:

A. 1. Continuous

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200019-6



POLON

520.145

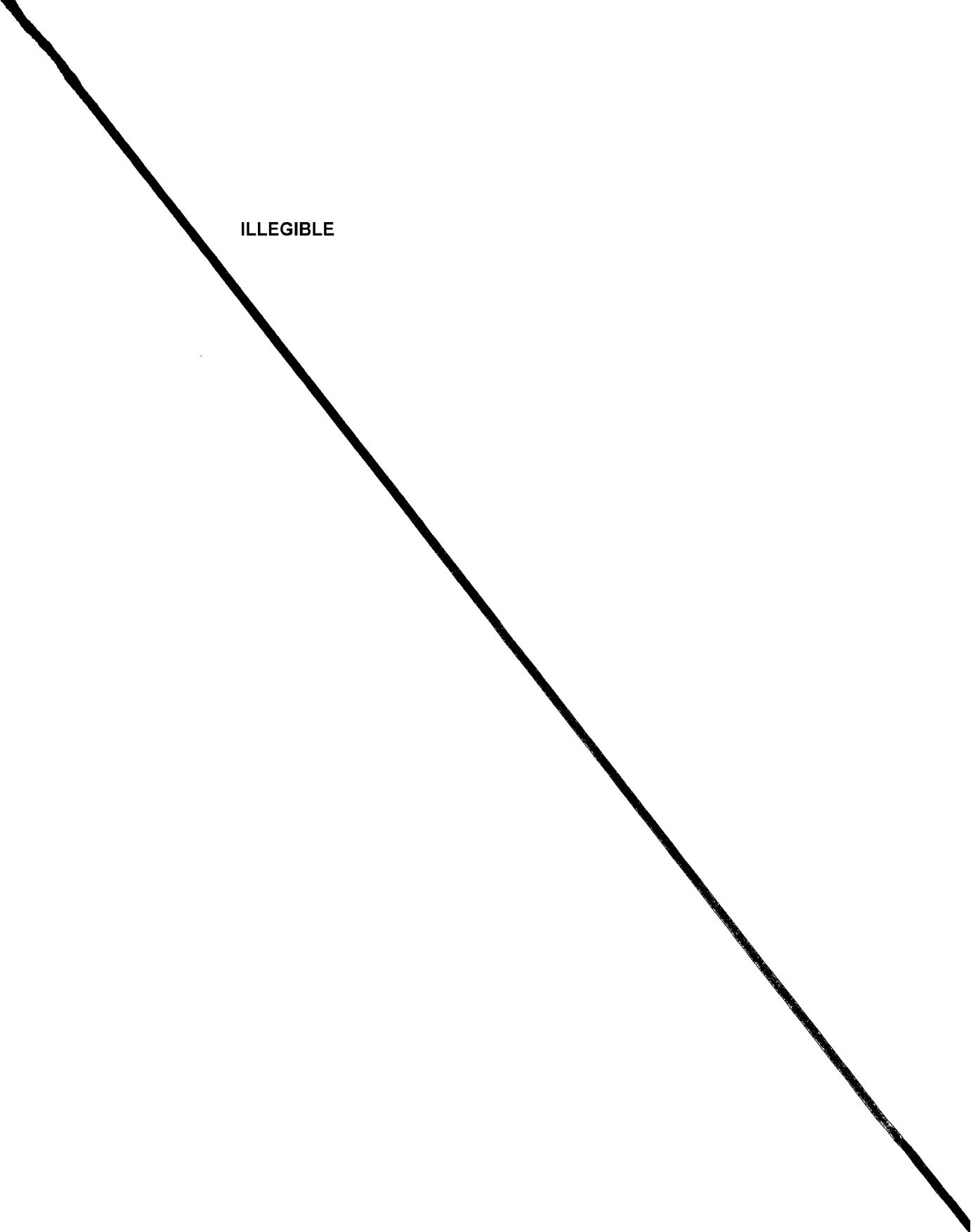
6262. Proof of the uniqueness theorem for some
hyperbolic differential equations in theoretical physics.
J. PLEBANSKI, *Acta phys. Polon.*, 12, No. 3-4, 230-7
(1955) 44 UNCLASSIFIED

Following Rubinowicz's uniqueness theorem for
the solutions of Maxwell's equations, a theorem
applicable to certain linear hyperbolic differential
equations is proved. This can be readily applied to
establish the uniqueness of the solutions of Maxwell's,
Dirac's and Proca's equations. W. A. HEPNPR

POLO

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200019-6

ILLEGIBLE



APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200019-6

